

1 meter beyond the ends of the pipe shall be filled with 13 millimeter or 19 millimeter crushed stone.

The Contractor shall be responsible for keeping the backfill material clean and free of objectionable material from a line 25 millimeters below the flow line of the pipe to the top of the trench.

260.63 Protection of Inlets and Open Outlets.

Inlets and open outlets of subdrains shall be covered with a 730 micrometer galvanized wire screen of 6.3 millimeter mesh satisfactorily fastened to the pipe.

COMPENSATION

260.80 Method of Measurement.

Subdrain pipe shall be measured in place and the quantity to be paid for shall be the length of pipe actually constructed, plus an allowance of 1 meter for open ends.

Trench excavation greater than a depth of 1.5 meters and rock excavation shall be measured as specified in Subsection 140.80 for Class B Trench Excavation and Class B Rock Excavation respectively.

260.81 Basis of Payment.

The above work will be paid for at the contract unit price per linear meter under the appropriate item for Subdrains with the specified size and kind of pipe, complete in place.

Trench excavation greater than a depth of 1.5 meters and rock excavation will be paid for as specified in Subsection 140.81 for Class B Trench Excavation and Class B Rock Excavation.

260.82 Payment Items.

261.*	___ millimeter Perforated Corrugated Metal Pipe, ___ micrometer (Subdrain)	Meter
262.*	___ millimeter Perforated Corrugated Aluminum Pipe, ___ micrometer (Subdrain)	Meter
265.*	___ millimeter Pipe Subdrain – Option	Meter
269.*	___ millimeter Slot-Perforated Corrugated Plastic Pipe (Subdrain)	Meter
142.	Class B Trench Excavation	Cubic Meter
144.	Class B Rock Excavation	Cubic Meter

*Pipe or appurtenance size will be included as part of the item number in order to differentiate between the sizes.

SECTION 270

PIPES REMOVED AND RELAID

OR STACKED

DESCRIPTION

270.20 General.

This work shall consist of removing present pipes and relaying or stacking them in accordance with these specifications and in close conformity with the lines and grades shown on the plans or established by the Engineer.

MATERIALS

270.40 Material for Pipe Joints shall conform to the requirements of Subsection 230.40.

CONSTRUCTION METHODS**270.60 Removal of Pipe.**

A trench of sufficient width and depth shall be excavated so that the present pipe can be removed without damage to the pipe. All joints shall than be opened and the pipe removed in its original sectional lengths.

Existing pipe in good condition which is damaged in removing or other handling due to carelessness of the Contractor, shall be replaced with new pipe at the Contractor's expense.

270.61 Relaying.

The construction methods for relaying the pipe in its final location shall conform to the requirements of Subsections 230.60 to 230.63 inclusive. In the case of corrugated metal pipe culverts, the Contractor shall furnish and place new collars and bolts, and repair the coating of the pipe as directed.

270.62 Stacking.

The Contractor shall accept and hold entire responsibility for the removal, handling, stacking at a location convenient for removal by the owner, and protection of all pipe until its final removal by others as designated and in accordance with the following:

Any pipe lost or damaged through lack of protection or carelessness by the Contractor shall be replaced with satisfactory pipe at his/her expense. The Contractor's responsibility will cease upon final acceptance of the work or 60 days from the time a certified notice, with copy to Engineer, is sent by Contractor to owner of material that al material is available for removal.

270.63 Backfilling Trenches.

The trench left by the removal of the pipe shall be backfilled in conformance with the relevant provisions of Subsection 150.64.

COMPENSATION**270.80 Method of Measurement.**

Pipes removed and relaid as directed will be measured in place after being relaid and quantity to be paid for shall be the length actually relaid. Any remaining pipe not required to be stacked shall become the property of the Contractor and shall be removed from the work without additional compensation.

Pipes removed and stacked, as directed, will be measured as the actual length of pipe removed and stacked in good condition.

Trench excavation greater than a depth of 1.5 meters and rock excavation will be measured as specified in Subsection 140.80 for Class B Trench Excavation and Class B Rock Excavation, respectively.

270.81 Basis of Payment.

Pipes removed and relaid will be paid for at the contract unit price per linear meter of the kind of pipe required to be removed and relaid, installed and complete in place.

Pipes removed and stacked will be paid for at the contract unit price per linear meter of the kind of pipe required to be removed and stacked.

Masonry ends will be paid for at the contract unit price per cubic meter of the class of masonry required.

Trench excavation for both removing and relaying greater than a depth of 1.5 meters and rock excavation for relaying will be paid for as specified in Subsection 140.81 for Class B Trench Excavation and Class B Rock Excavation.

Backfill for trenches 1.5 meters or less in depth shall be included in the various items of pipe. Backfill for that

part of a trench which is more than 1.5 meters in depth shall be included in the item for Class B Trench Excavation.

If borrow material is used for backfilling, it will be paid for at the contract unit price per cubic meter of the kind of borrow required.

270.82 Payment Items.

270.*	Pipe Removed and Relaid	Meter
271.*	Pipe Removed and Stacked	Meter
142.	Class B Trench Excavation	Cubic Meter
144.	Class B Rock Excavation	Cubic Meter
151.	Gravel Borrow	Cubic Meter
156.	Crushed Stone for Drainage, Revetment and/or Water Works Foundation	Metric Ton
903.	20 MPa - 40 mm - 280 kg Cement Concrete Masonry	Cubic Meter
685.	Field Stone Masonry in Cement Mortar	Cubic Meter

*Pipe or appurtenance size will be included as part of the item number in order to differentiate between the sizes.

SECTION 280

WATERWAYS

DESCRIPTION

280.20 General.

This work shall consist of the construction of waterways in accordance with these specifications and in close conformity with the lines and grades shown on the plans or established by the Engineer.

MATERIALS

280.40 General.

Materials shall meet the requirements specified in the following Subsections of Division III, Materials.

Gravel Borrow	M1.03.0, Type b
Bituminous Concrete	M3.11.00
Cement Concrete	M4.02.00
Preformed Expansion Joint Filler	M9.14.00
Welded Steel Wire Fabric	M8.01.02
Load Transfer Assembly	M8.14.00
Lubricant	M8.14.00

CONSTRUCTION METHODS

280.60 General.

A. Excavation

See Subsection 140.60.

B. Foundation.